

SM3H 5.5 Properties of Logarithms (Key) odds

1. 0
3. M
5. $\log_a M + \log_a N$
7. $r \log_a M$
9. 7
11. False
13. -13
15. $\log_8 2$
17. 2
19. a-b
21. 3a
23. $1 - \ln x$
25. $2 \log_a u + 3 \log_a v$
27. $3 \log x + \frac{1}{2} \log(x+1) - 2 \log(x-2)$
29. $\log_5 u^3 v^4$
31. $\log \frac{(x+3)(x-1)}{(x+6)(x-2)(x+1)}$
33. 2.771
35. Use calculator graph $y = \frac{\log x}{\log 5}$
37. Hint: Write the right side of the equation as a single logarithm, then use the one-to-one property.